

All Operations Are Remote Controllable



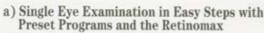
With its wider coverage area the new remote control system gives operators greater flexibility in the examination room. Now you can easily check patient position and point to the chart during examination.

Wireless Direct Data Transfer

Simply aim the Retinomax toward the Remote Vision, press the Print Key, and data is transferred wirelessly to the main unit. The Remote Vision printer can also be used independently with the Retinomax. (Note: only refraction data is transferred with the K-plus.)

Three Programs for Efficient Operation

The Remote Vision system contains three preset programs which can also be customized for individual use.



Program No.1 is preset for general monocular examination. Press the NEXT key to move on to the next step; the current step number appears on the central window for confirmation.

Program No.3 contains a quicker, simpler preset. By using Program No.3 after taking a Retinomax reading, instruments perform just like an Objective/Subjective Auto Refractometer.

b) Programmed Binocular Testing

Program No.2 is preset for binocular tests utilizing the charts of Chart Projector NP-3S. Charts are synchronized in the test.

All three programs can be modified and renewed and each contains up to 30 steps programmed along with chart tests.



Loaded on the chair & stand unit



Easy-to-Use Remote Controller with Jog Dial

Data can be shifted with a jog dial for faster examinations—only 7 seconds to shift from OD to 10D. In combination with the NP-3S Chart Projector, the remote controller lets you change charts by simply pressing the CHART key. To switch between Chart and Optester tests, also press the CHART Key.



All NP-3S Charts Available Through Remote Control

Exclusive single remote controller (all areas)
Multiple charts combined (mostly U.S.A.)
Europe II chart (mostly Europe)
Number charts combined (all areas)
Snellen and number charts combined (all areas), etc.



Remote Vision keys

NP-3S keys

Four-Unit Installation and 8 Data Entries Memorized

Up to four* Remote Vision units can be installed without signal interference from the remote controller. A single Remote Vision can store eight data entries selected from an Auto Refractometer or Retinomax.

*Eight units when four NP-3S units are wired.

Optional Data Receiver

In situations where the Remote Vision is located in a closed room, a data receiver is available as an option to extend the wire connection to wherever the Retinomax is being used.

Large LED Display and Super-Thin Viewing Window



Quick, Manual Cross Cylinder and Auto Cross Cylinder

Conventional cross cylinder tests can be accomplished faster than ever before. During auto cross cylinder tests, the center LED window indicates in which direction the dial should be turned.

Eye Projection Lights

Eve projection lights on both sides help the operator check patient's eyes for VD and PD adjustment.





Detachable Sanitary Cheek Plate

All lens data are clearly visible on the large LED display for instant recognition (approx. 2.75 times greater than previous models; 11mm x 8mm). The extra thin viewing windows gives a 36 degree field of view, allowing patients to see charts clearly without accommodation.

Easy-to-See Auxiliar Indications

Auxiliary lenses are indicated in the control of th center window by an LE on the lens mark also lig



| D. The LED hts up. | |
|-----------------------|-------|
| D. The LED | |
| | HIIII |

Six Kinds of Data Memory:

Far 1, Far 2, Near 1, Near 2, Auto ref. or Retinomax, Auto lensmeter It is possible to compare two different data.

Power box with printer

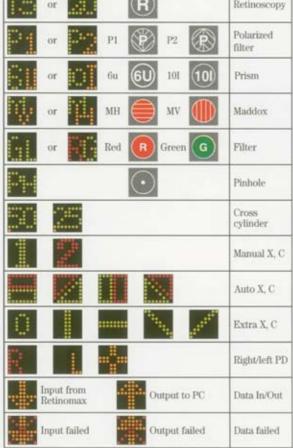


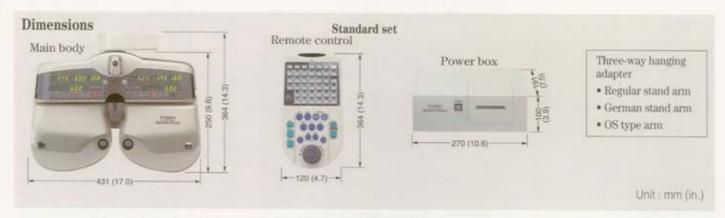
Standard Near Point Chart



Print Sample

| Name | | |
|--|-----------------------------------|---|
| | | R&L 0.4 |
| [FAR1] SPH R - 2.25 L - 1.75 | PD R32 CYL - 0.50 - 0.50 | AX VA 180 1.2 175 1.2 R&L 1.5 |
| R + 2.00 L + 2.00 | 1.081 | 0.580 |
| [FAR2] SPH R:- 2.25 L:- 1.75 | PO R32 CYL - 0.50 - 0.50 | AX VA 180 1.2 175 1.2 |
| A00 R + 2.00 L + 2.00 | PX | PY PY |
| [NEAR1] SPH R - 0.25 L + 0.25 | PD R32 CYL - 0.50 - 0.50 | 2.0 L32.5 AX VA 180 175 |
| [REF]No.0 SPH R - 2.25 L - 1.50 | | |
| | | PD 64.0 AX VA 180 1.0 175 0.8 R&L 1.0 PY |
| A00 R + 1.50 L + 1.50 | PX | Py Py |
| (FAR1 eye | print) | |
| (R) SPH - 2.25 | - CYL - 0.50 | AX 160 |
| | | |
| [L] SPH - 1.75 | CYL - 0.50 | AX 175 |
| | | |





Remote Control Panels Selectable by Chart Projectors (Single/Multiple/Europe II/Snellen & Number/Number etc.)









Specifications

| | Measuring Head | | |
|--------------------------------------|---|--|--|
| Measurement range Spherical power | $-29.00D \le S + C/2 \le + \text{(auxiliary lens)} \le +26.751$ in 0.25D steps (0.125/0.25/1D selectable) With prism, auto cross cylinder: $-19.00D \le S + C/2 \le + \text{(auxiliary lens)} \le +16.75D$ | | |
| Cylindrical power | -7D to +7D in 0.25D/1D steps (selectable) | | |
| Cylindrical axes | 0' to 180' in 5' steps (1/5/45' selectable) | | |
| Prism | 0Δ to 20Δ in 0.5Δ steps (0.25/0.5/1Δ selectable) | | |
| Cross cylinder | Auto cross cylinder: ±0.25D Cross cylinder: ±0.25D/±0.50D switchable | | |
| Auxiliary lenses | For left eye | For right eye | |
| | Ope | n aperture | |
| | Occluder | | |
| | +1.50 or +2.00 for Retinoscope | | |
| | ±0.50 cross cylinder lens | | |
| | Vertical Maddox | Horizontal Maddox | |
| | Polarizing filter | | |
| | 135' transmission from examiner side | 45' transmission from examiner side | |
| | 45° transmission | 135' transmission | |
| | 10∆ base-in | 6Δ base-up | |
| | Green filter | Red filter | |
| | PD cross hairline | | |
| | Pinhole diameter 1.2mm | | |
| Effective field of view | 36' | | |

Specifications and equipment are subject to change without any notice or obligation on the part of the manufacturer. January 2004.

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| Vertex distance | 12mm or 13.75mm |
|-----------------------|--|
| P.D. adjustment | 50mm to 80mm in 0.5mm steps (0.1/0.5/1mm selectable) |
| Convergence | Turning toward 400mm ahead |
| Dimensions and weight | 431 (W) x 367 (H) x 147 (D) mm (at PD 64mm), 8.0kg (17.6 lbs.) (Regular) / 7.75kg (German) |
| | Remote Controller |
| Dimensions and weight | 120 (W) x 57 (H) x 223 (D) mm, approx. 470g (16.6 oz.) |
| Signal transmission | 2 LEDs |
| Power source | 1.5V AA battery x 3 pcs |
| Data memory | 3 examination programs, Auto refractometer, Auto lensmeter, Far 1, Far 2, Near 1, Near 2 |
| Visual acuity input | 20/20, 1.0, or 6/6 corresponding to chart |
| Prism indication | Changeable (base display/r# display) |
| Battery service life | 6 months (typical), 4 months with alkaline batteries (based on 1,500 key strokes per day) |
| | Power Supply |
| Dimensions and weight | 270 (W) x 100 (H) x 191 (D) mm, 6.4kg (14.1 lbs.) (with printer)/ 5.7kg (12.6 lbs.) (w/o printer) |
| Power consumption | 1.5A (100/120V); 0.7A (230V) |
| Fuse capacity | T3. 15/250V (100/120V) |
| | T1. 6/250V (230V) |
| Interface | RS-232C interface x 2 |
| Printer | Thermal line dot printer |
| | Data Receiver (Option) |
| Dimensions and weight | 36 (W) x 66 (D) x 29 (H) mm, 150g (5.3 oz.) (incl. cord) |

The program power box is a strategic product subject to Japanese/International export control regime. It should not be exported without authorization from the appropriate governmental authorities.



ISO 9001 Certified RIGHT MFG. CO., LTD.